

**Flood Control Project Maintenance
Levee Inspections**

LMA District Cover Sheet

Spring 2012 Levee Inspection Results

Reclamation District No. 0349 Sutter Island

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

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SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2012 Levee Inspection Results

Reclamation District No. 0349 Sutter Island

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento River			Right	1.59
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/3/2012 - 5/3/2012			
DWR Inspector	Herman Phillips			
Accompanied By	Mr. Wheeler Fred RD 349			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 0349 Sutter Island

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
LMR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	Earthen Levee	Operations & Maintenance Manuals	LS	M Ma				°	°	2
2	Earthen Levee	Emergency Supplies & Equipment	LS	M Ma				°	°	3
3	Earthen Levee	Flood Preparedness & Training	LS	M Ma				°	°	7
4	0.00 0.00	Earthen Levee	Vegetation	LS A Ma	V1 : Control annual grass and weeds on the levee slopes and easements.			38.327004 ° 38.327004 ° -121.537010 ° -121.537010 °	Y	1
5	0.00 0.00	Earthen Levee	Vegetation	WS U En	V6 : Landscaping			38.327004 ° 38.327009 ° -121.577011 ° -121.577013 °	Y	5
6	1.05 1.09	Earthen Levee	Vegetation	LS M En	V6 : Landscaping			38.312174 ° 38.311628 ° -121.578490 ° -121.578271 °		4
7	1.31 1.59	Earthen Levee	Vegetation	LS M En	V6 : Landscaping			38.308790 ° 38.305123 ° -121.576735 ° -121.574655 °		6
8	1.44 1.48	Earthen Levee	Vegetation	LS M En	V6 : Landscaping			38.307117 ° 38.306600 ° -121.575524 ° -121.575210 °		21
DWR ID: DWR_RD0349_01_s_2012_2										
DWR ID: DWR_RD0349_01_s_2012_3										
DWR ID: DWR_RD0349_01_s_2012_7										
DWR ID: DWR_RD0349_01_s_2012_1										
DWR ID: DWR_RD0349_01_s_2012_5										
DWR ID: DWR_RD0349_01_s_2012_4										
DWR ID: DWR_RD0349_01_s_2012_6										
DWR ID: DWR_RD0349_01_s_2012_21										

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	05/03/2012 05/03/2012	Herman Phillips

Levee Mile Report Line	4
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Land Side
Category	Earthen Levee
Item	Vegetation
RD 349 Levee mile 0.00 looking downstream at landside slope. Photo taken 5-3-2012.	
phillips_s_20120511_416.jpg	

Levee Mile Report Line	5
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Water Side
Category	Earthen Levee
Item	Vegetation
RD 349 Unit 1 looking downstream from levee mile 0.00 waterside. Unsatisfactory growth on waterward slope and shoulder. Cannot see levee section for over growth. Photo taken 5-3-2012.	
phillips_s_20120511_415.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2012 Levee Inspection Results

Reclamation District No. 0349 Sutter Island

Waterway			Bank	Unit Miles
Unit No. 02 Steamboat Slough			Right	4.35
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/3/2012 - 5/3/2012			
DWR Inspector	Herman Phillips			
Accompanied By	Fred Wheeler RD 349			

Summer & Winter Inspections

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 0349 Sutter Island

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector		
LMR No.	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment	GPS Latitude/Longitude		Issue No. Start	Photo		
	Levee Mile	End						Start	End				
1	0.00	0.00	Earthen Levee	Vegetation	LS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.305024 °	38.305024 °	23	-121.575155 °	-121.575155 ° Y	DWR ID: DWR_RD0349_02_s_2012_23
2	0.00	0.00	Earthen Levee	Vegetation	WS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.305024 °	38.305024 °	24	-121.575155 °	121.575155 ° Y	DWR ID: DWR_RD0349_02_s_2012_24
3	0.02	0.02	Earthen Levee	Encroachments	WS En	M	BU : Buildings	38.304870 °	38.304870 °	4	121.574730 °	121.574730 ° Y	DWR ID: DWR_RD0349_02_s_2012_4
4	0.02	0.02	Earthen Levee	Vegetation	LS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.305024 °	38.305024 °	2	-121.575155 °	-121.575155 °	DWR ID: DWR_RD0349_02_s_2012_2
5	0.04	0.06	Earthen Levee	Vegetation	LS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.304902 °	38.304828 °	6	-121.575475 °	-121.575902 °	DWR ID: DWR_RD0349_02_s_2012_6
6	0.10	0.11	Earthen Levee	Encroachments	LS Ma	M	EQ : Equipment	38.589334 °	38.891916 °	967	-121.505000 °	-121.504970 °	DWR ID: DWR_RD0349_02_s_2012_967
7	0.15	0.15	Earthen Levee	Vegetation	LS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Wild grapes growing on the landward slope.	38.304215 °	38.304151 °	10	-121.577098 °	-121.577179 °	DWR ID: DWR_RD0349_02_s_2012_10
8	0.18	0.29	Supplemental USACE Erosion Survey	WS Ma	M	Inspector Comments: 2007 - Slow erosion, probably due to wave wash and fluvial erosion. Site has likely been here for awhile but was unseen due to boats parked in front. 2011: No observed change. [2011 Site ID: STM_25-8_R]	38.302358 °	38.301772 °	26	-121.579707 °	-121.580093 ° Y	DWR ID: DWR_RD0349_02_s_2012_26	
9	0.21	0.25	Earthen Levee	Vegetation	LS En	M	V6 : Landscaping	38.303673 °	38.303303 °	7	-121.578065 °	-121.578695 °	DWR ID: DWR_RD0349_02_s_2012_7
10	0.54	0.59	Supplemental USACE Erosion Survey	WS Ma	M	Inspector Comments: 2010 - Small maintenance, erosion into the toe. 2011: Minor new erosion at the toe. [2011 Site ID: STM_25-5_R]	38.298897 °	38.297384 °	27	-121.581571 °	-121.582176 ° Y	DWR ID: DWR_RD0349_02_s_2012_27	
11	0.82	0.82	Earthen Levee	Encroachments	LS Ma	M	EQ : Equipment	38.296011 °	38.296011 °	971	-121.582736 °	-121.582736 °	DWR ID: DWR_RD0349_02_s_2012_971
12	0.82	0.83	Earthen Levee	Encroachments	LS En	M	MA : Material	38.296005 °	38.295862 °	67	-121.582838 °	-121.582900 °	DWR ID: DWR_RD0349_02_s_2012_67
13	0.84	0.90	Earthen Levee	Vegetation	LS En	M	V6 : Landscaping	38.295753 °	38.294985 °	12	-121.582838 °	-121.583147 °	DWR ID: DWR_RD0349_02_s_2012_12
14	0.85	0.87	Earthen Levee	Vegetation	WS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.560402 °	38.570757 °	13	121.522426 °	121.518358 °	DWR ID: DWR_RD0349_02_s_2012_13

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 0349 Sutter Island

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector	
IMR No	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment	GPS Latitude/Longitude		Issue No. Start	Photo	
	Levee Mile	End						Start	End			
15	1.06	1.09	Earthen Levee	Vegetation	LS	C Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.292581 °	38.292271 °	14	-121.583860 ° -121.583947 ° DWR ID: DWR_RD0349_02_s_2012_14	
16	1.06	1.07	Earthen Levee	Encroachments	LS	M Ma	DE : Debris	38.292650 °	38.292493 °	9	-121.583830 ° -121.583872 ° DWR ID: DWR_RD0349_02_s_2012_9	
17	1.32	1.33	Supplemental USACE Erosion Survey	WS	U Ma	Inspector Comments: 1997 - Erosion of very sandy levee behind large stand of riparian vegetation on top right bank. Dry ravel of sand. 1999 - Quarry waste rock was dumped down the levee slope; poor repair job; still eroding in places. Eroding at midslope off fabric. 2005 - Length revised, only the middle 150 - 200 ft are eroding. 2006 - Some rock/small material dumped down the bank but it is slowly unraveling. Upstream end is unraveling faster. Steep slope with poor gradation so fines are washing out. 2010 - Lots of overhanging trees and erosion pockets. 2011: This site is upgraded to CRITICAL. Near vertical bank at the downstream end. New erosion at various locations throughout the site. [2011 Site ID: STM_24-7_R]			38.286475 °	38.288727 °	28	-121.585026 ° -121.583823 ° Y DWR ID: DWR_RD0349_02_s_2012_28
18	1.33	1.34	Earthen Levee	Vegetation	LS	M En	V6 : Landscaping	38.288913 °	38.288745 °	18	-121.583933 ° -121.583938 ° DWR ID: DWR_RD0349_02_s_2012_18	
19	1.68	1.83	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.285018 °	38.283400 °	25	-121.587750 ° -121.589270 ° DWR ID: DWR_RD0349_02_s_2012_25	
20	1.83	1.83	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.283312 °	38.283312 °	17	-121.589325 ° -121.589325 ° DWR ID: DWR_RD0349_02_s_2012_17	
21	2.00	2.05	Supplemental USACE Erosion Survey	WS	M Ma	Inspector Comments: 1997 - Top right bank has retreated into the levee. Site is between two rock sites. 1999 - Downstream half of the reach repaired with rock. 2000 - Trees leaning into the water. 2010 - Site appears worse. 2011: New erosion at the toe. [2011 Site ID: STM_23-9_R]			38.279017 °	38.278597 °	29	-121.589615 ° -121.589854 ° Y DWR ID: DWR_RD0349_02_s_2012_29
22	2.05	2.05	Supplemental USACE Erosion Survey	WS	M Ma	Inspector Comments: 2011: Small scallop caused by erosion and wavewash. [2011 Site ID: STM_24-1_R]			38.280069 °	38.279919 °	30	-121.589443 ° -121.589438 ° Y DWR ID: DWR_RD0349_02_s_2012_30
23	2.16	2.16	Earthen Levee	Encroachments	WS	M En	PI : Pipe Inspector Comments: Abandoned pipe on waterward slope. At this location there is an irrigation pipe sleeved through another pipe (12-inch) with annular spaces not grouted. Photo taken 11-30-2011.	38.278694 °	38.278694 °	19	-121.590067 ° -121.590067 ° Y DWR ID: DWR_RD0349_02_s_2012_19	
24	2.16	2.16	Earthen Levee	Encroachments	LS	U En	PI : Pipe Inspector Comments: Unauthorized pipe (PVC) through levee section. Opened pipe through the levee section is not authorized. Annular space inside pipe should be grouted.	38.278694 °	38.278694 °	15	-121.590070 ° -121.590070 ° Y DWR ID: DWR_RD0349_02_s_2012_15	

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 0349 Sutter Island

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector	
MR No	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.		
	Start	End						Start	End			
25	2.40	2.40	Earthen Levee	Vegetation	LS Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Remove the bamboo from the landward slope.		38.275303 °	38.275303 °	8	-121.591054 °	-121.591054 °
26	2.41	2.44	Earthen Levee	Vegetation	LS En	V6 : Landscaping		38.275492 °	38.275092 °	31	-121.591268 °	-121.590910 °
27	2.46	2.66	Supplemental USACE Erosion Survey	WS M	Ma	Inspector Comments: 2011: Toe scour at the tidal zone. [2011 Site ID: STM_23-6_R]		38.273854 °	38.271998 °	32	-121.588745 °	-121.589424 °
28	2.77	2.77	Earthen Levee	Vegetation	LS A/W Ma	V4 : Elderberries are blocking visibility and flood fight capability.		38.271109 °	38.271109 °	20	-121.589915 °	-121.589915 °
29	2.98	3.04	Earthen Levee	Vegetation	LS Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.		38.268268 °	38.267500 °	21	-121.589167 °	-121.588649 °
30	3.25	3.47	Supplemental USACE Erosion Survey	WS M	Ma	Inspector Comments: 2010 - Slumping sections on the lower bank, appears to be scouring around the trees. 2011: Soil beach at toe. [2011 Site ID: STM_22-8_R]		38.262510 °	38.262533 °	33	-121.589481 °	-121.591690 °
31	3.39	3.40	Earthen Levee	Encroachments	LS Ma	PI : Pipe		38.560402 °	38.540027 °	3	-121.522426 °	-121.514953 °
32	3.41	3.47	Earthen Levee	Vegetation	LS Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.		38.262669 °	38.262699 °	974	-121.589830 °	-121.590920 °
33	3.64	3.72	Earthen Levee	Vegetation	LS En	V6 : Landscaping		38.262322 °	38.261483 °	43	-121.593935 °	-121.594867 °
34	3.73	3.74	Earthen Levee	Vegetation	WS En	V6 : Landscaping		38.261403 °	38.261330 °	45	-121.594932 °	-121.595022 °
35	3.74	3.78	Earthen Levee	Encroachments	LS En	FE : Fences		38.560402 °	38.569466 °	11	-121.522426 °	-121.519811 °
36	3.75	3.75	Earthen Levee	Encroachments	WS Ma	TR : Tree or limb		38.261111 °	38.261001 °	22	-121.595062 °	-121.595052 °
37	3.75	3.77	Earthen Levee	Encroachments	LS En	FE : Fences Inspector Comments: The landowner has goats and chickens in various pens along the landward toe of levee.		38.261242 °	38.260868 °	47	-121.595173 °	-121.595267 °
38	3.75	3.75	Earthen Levee	Encroachments	LS Ma	TR : Tree or limb		38.261070 °	38.261070 °	975	-121.595060 °	-121.595060 °
											DWR ID: DWR_RD0349_02_s_2012_47	DWR ID: DWR_RD0349_02_s_2012_975

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 0349 Sutter Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector				
LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment			GPS Latitude/Longitude	Issue No.			
	Start	End								Start	End	Photo		
39	3.78	3.78	Earthen Levee	Encroachments	LS	M	FE : Fences En			38.260823 °	38.260705 °	48 -121.595253 °	-121.595275 °	Y DWR ID: DWR_RD0349_02_s_2012_48
40	3.80	3.84	Earthen Levee	Encroachments	LS	M	FE : Fences En			38.259984 °	38.259405 °	16 -121.595228 °	-121.555187 °	Y DWR ID: DWR_RD0349_02_s_2012_16
41	4.29	4.35	Earthen Levee	Vegetation	WS	M	V2 : Remove the wild growth other than native grasses Ma from the levee slopes.			38.254846 °	38.254796 °	976 -121.599030 °	-121.600093 °	DWR ID: DWR_RD0349_02_s_2012_976

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Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.35	05/03/2012 05/03/2012	Herman Phillips

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Land Side
Category	Earthen Levee
Item	Vegetation
RD 349 This photo taken of levee mile 0.00 land side looking downstream of Unit 2. Photo taken 11-30-2011.	
phillips_s_20120306_102.jpg	



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Land Side
Category	Earthen Levee
Item	Vegetation
RD 349 Unit 2 looking downstream from levee mile 0.00 landside shoulder. Photo taken 5-3-2012.	
phillips_s_20120514_418.jpg	



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Water Side
Category	Earthen Levee
Item	Vegetation
RD 349 Unit 2 looking downstream water side. Photo taken 11-30-2011.	
phillips_s_20120306_103.jpg	



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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.35	05/03/2012 05/03/2012	Herman Phillips

Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Water Side
Category	Earthen Levee
Item	Vegetation
RD 349 Unit 2 levee mile 0.00 looking downstream from waterside. Photo taken 5-3-2012.	
phillips_s_20120514_417.jpg	



Levee Mile Report Line	3
Start Levee Mile	0.02
End Levee Mile	0.02
Location	Water Side
Category	Earthen Levee
Item	Encroachments
This is the view from across the channel of a building sitting on pilings waterside.	
phillips_s_20120306_093.jpg	



Levee Mile Report Line	3
Start Levee Mile	0.02
End Levee Mile	0.02
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Unauthorized building on waterside levee mile 0.02 RD 349 Unit 2.	
phillips_s_20120306_094.jpg	



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Unit No. 02 Steamboat Slough	Right	4.35	05/03/2012 05/03/2012	Herman Phillips

Levee Mile Report Line	3
Start Levee Mile	0.02
End Levee Mile	0.02
Location	Water Side
Category	Earthen Levee
Item	Encroachments

This photo shows the piling that the building is resting upon.

phillips_s_20120306_095.jpg



Levee Mile Report Line	8
Start Levee Mile	0.18
End Levee Mile	0.29
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

phillips_s_20120306_104.jpg



Levee Mile Report Line	8
Start Levee Mile	0.18
End Levee Mile	0.29
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

phillips_s_20120306_105.jpg



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Unit No. 02 Steamboat Slough	Right	4.35	05/03/2012 05/03/2012	Herman Phillips

Levee Mile Report Line	10
Start Levee Mile	0.54
End Levee Mile	0.59
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

phillips_s_20120306_106.jpg



Levee Mile Report Line	10
Start Levee Mile	0.54
End Levee Mile	0.59
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

phillips_s_20120306_107.jpg



Levee Mile Report Line	17
Start Levee Mile	1.32
End Levee Mile	1.33
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

phillips_s_20120306_108.jpg



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
A/W : Acceptable but Monitor & Maintain

N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.35	05/03/2012 05/03/2012	Herman Phillips

Levee Mile Report Line	17
Start Levee Mile	1.32
End Levee Mile	1.33
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

phillips_s_20120306_109.jpg



Levee Mile Report Line	17
Start Levee Mile	1.32
End Levee Mile	1.33
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

phillips_s_20120306_110.jpg



Levee Mile Report Line	21
Start Levee Mile	2.00
End Levee Mile	2.05
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

phillips_s_20120306_111.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.35	05/03/2012 05/03/2012	Herman Phillips

Levee Mile Report Line	21
Start Levee Mile	2.00
End Levee Mile	2.05
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

phillips_s_20120306_112.jpg



Levee Mile Report Line	21
Start Levee Mile	2.00
End Levee Mile	2.05
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

phillips_s_20120306_113.jpg



Levee Mile Report Line	22
Start Levee Mile	2.05
End Levee Mile	2.05
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

phillips_s_20120306_114.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.35	05/03/2012 05/03/2012	Herman Phillips

Levee Mile Report Line	23
Start Levee Mile	2.16
End Levee Mile	2.16
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Discarded pipe waterward toe. Photo taken 11-30-2011.	
phillips_s_20120306_101.jpg	



Levee Mile Report Line	24
Start Levee Mile	2.16
End Levee Mile	2.16
Location	Land Side
Category	Earthen Levee
Item	Encroachments
View from landward at unauthorized pipe installation at levee mile 2.13. Photo taken 5-23-2011	
phillips_s_20120306_097.jpg	



Levee Mile Report Line	24
Start Levee Mile	2.16
End Levee Mile	2.16
Location	Land Side
Category	Earthen Levee
Item	Encroachments
View from landside of unauthorized pipe installation. Photo taken 5-23-2011	
phillips_s_20120306_098.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.35	05/03/2012 05/03/2012	Herman Phillips

Levee Mile Report Line	24
Start Levee Mile	2.16
End Levee Mile	2.16
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Aunauthorized open pipe through the levee section. Photo taken 5-3-2012.	
phillips_s_20120521_419.jpg	



Levee Mile Report Line	27
Start Levee Mile	2.46
End Levee Mile	2.66
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #1	
phillips_s_20120306_115.jpg	



Levee Mile Report Line	27
Start Levee Mile	2.46
End Levee Mile	2.66
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #2	
phillips_s_20120306_116.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.35	05/03/2012 05/03/2012	Herman Phillips

Levee Mile Report Line	30
Start Levee Mile	3.25
End Levee Mile	3.47
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

phillips_s_20120306_117.jpg



Levee Mile Report Line	30
Start Levee Mile	3.25
End Levee Mile	3.47
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

phillips_s_20120306_118.jpg



Levee Mile Report Line	30
Start Levee Mile	3.25
End Levee Mile	3.47
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

phillips_s_20120306_119.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.35	05/03/2012 05/03/2012	Herman Phillips

Levee Mile Report Line	31
Start Levee Mile	3.39
End Levee Mile	3.40
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Old pipe stocked on land ward slope unit 2 levee mile 3.39-3.40.	
phillips_s_20120306_092.jpg	



Levee Mile Report Line	37
Start Levee Mile	3.75
End Levee Mile	3.77
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Building, chicken pens and goat pens at toe of levee 3.74-3.78.	
phillips_s_20120306_120.jpg	



Levee Mile Report Line	37
Start Levee Mile	3.75
End Levee Mile	3.77
Location	Land Side
Category	Earthen Levee
Item	Encroachments
This photo shows a fence at right bottom and the tin in back ground is part of another pen. The top right side of photo shows the corner of a building of slope. The equipment is shown in backside of fence.	
phillips_s_20120306_121.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.35	05/03/2012 05/03/2012	Herman Phillips

Levee Mile Report Line	37
Start Levee Mile	3.75
End Levee Mile	3.77
Location	Land Side
Category	Earthen Levee
Item	Encroachments
This photo shows the material on slope along with cages for goats and chickens.	
phillips_s_20120306_122.jpg	



Levee Mile Report Line	39
Start Levee Mile	3.78
End Levee Mile	3.78
Location	Land Side
Category	Earthen Levee
Item	Encroachments
This fence has no permit, the landowner moves it from time to time. He keeps goats inside of it..	
phillips_s_20120306_123.jpg	



Levee Mile Report Line	40
Start Levee Mile	3.80
End Levee Mile	3.84
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Unauthorized fence remains on levee slope landward levee mile 3.80-3.84. Photo taken 5-23-2011.	
phillips_s_20120306_099.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.35	05/03/2012 05/03/2012	Herman Phillips

Levee Mile Report Line	40
Start Levee Mile	3.80
End Levee Mile	3.84
Location	Land Side
Category	Earthen Levee
Item	Encroachments
View of fence and other structures at toe of levee section. Photo taken 5-23-2011.	
phillips_s_20120306_100.jpg	



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WS : Water Side
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			En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2012 Levee Inspection Results

Reclamation District No. 0349 Sutter Island

Waterway			Bank	Unit Miles
Unit No. 03 Sutter Slough			Left	6.55
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/3/2012 - 5/3/2012			
DWR Inspector	Herman Phillips			
Accompanied By	Fred Wheeler RD 349			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 0349 Sutter Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 03 Sutter Slough							Left	6.55	05/03/2012 05/03/2012	Herman Phillips	
LMR No.	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment			GPS Latitude/Longitude	Issue No. Start End Photo
	Start	End								Start	
1	0.00	0.00	Earthen Levee	Vegetation	WS	M	V1 : Control annual grass and weeds on the levee slopes Ma	V1 : Control annual grass and weeds on the levee slopes and easements.			38.254710 ° 38.254710 ° 10 -121.600103 ° -121.600103 ° Y DWR ID: DWR_RD0349_03_s_2012_10
2	0.06	0.07	Earthen Levee	Vegetation	LS	M	V2 : Remove the wild growth other than native grasses Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.			38.255677 ° 38.255746 ° 9 -121.599982 ° -121.599968 ° DWR ID: DWR_RD0349_03_s_2012_9
3	0.06	0.63	Earthen Levee	Vegetation	CR	M	V2 : Remove the wild growth other than native grasses Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.			38.255677 ° 38.263736 ° 8 -121.599982 ° -121.601013 ° DWR ID: DWR_RD0349_03_s_2012_8
4	0.30	0.30	Earthen Levee	Trim / Thin Trees	LS	M	T2 : Thin trees to allow visibility of the ground and room to flood fight.	T2 : Thin trees to allow visibility of the ground and room to flood fight.			38.259153 ° 38.259153 ° 12 -121.599981 ° -121.599981 ° DWR ID: DWR_RD0349_03_s_2012_12
5	0.37	0.37	Earthen Levee	Encroachments	WS	M	TR : Tree or limb Ma	TR : Tree or limb			38.260072 ° 38.260072 ° 2 -121.600334 ° -121.600334 ° DWR ID: DWR_RD0349_03_s_2012_2
6	0.62	0.62	Earthen Levee	Trim / Thin Trees	LS	N	T5 : Tree stumps. Ma	T5 : Tree stumps.			38.263622 ° 38.263622 ° 5 -121.601080 ° -121.601080 ° Y DWR ID: DWR_RD0349_03_s_2012_5
7	0.63	0.63	Earthen Levee	Trim / Thin Trees	LS	N	T5 : Tree stumps. Ma	T5 : Tree stumps.			38.263757 ° 38.263757 ° 3 -121.601070 ° -121.601070 ° Y DWR ID: DWR_RD0349_03_s_2012_3
8	0.66	0.66	Earthen Levee	Encroachments	WS	M	TR : Tree or limb Ma	TR : Tree or limb			38.264176 ° 38.264176 ° 6 -121.601188 ° -121.601188 ° DWR ID: DWR_RD0349_03_s_2012_6
9	0.79	0.85	Earthen Levee	Vegetation	LS	C	V6 : Landscaping En	V6 : Landscaping			38.265952 ° 38.266842 ° 4 -121.601692 ° -121.602033 ° DWR ID: DWR_RD0349_03_s_2012_4
10	0.81	0.81	Earthen Levee	Encroachments	LS	M	TR : Tree or limb Ma	TR : Tree or limb Inspector Comments: Fallen dead tree on landward slope.			38.266223 ° 38.266223 ° 1 -121.601873 ° -121.601873 ° Y DWR ID: DWR_RD0349_03_s_2012_1
11	0.81	0.81	Earthen Levee	Encroachments	LS	M	TR : Tree or limb Ma	TR : Tree or limb			38.266235 ° 38.266235 ° 13 -121.601837 ° -121.601837 ° DWR ID: DWR_RD0349_03_s_2012_13
12	0.97	0.97	Earthen Levee	Encroachments	WS	M	TR : Tree or limb Ma	TR : Tree or limb			38.268393 ° 38.268393 ° 971 -121.602911 ° -121.602911 ° DWR ID: DWR_RD0349_03_s_2012_971
13	1.70	1.76	Earthen Levee	Vegetation	LS	C	V6 : Landscaping En	V6 : Landscaping			38.278355 ° 38.279095 ° 14 -121.600330 ° -121.600273 ° DWR ID: DWR_RD0349_03_s_2012_14

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 0349 Sutter Island

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
L/MR No	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End		
14	2.20	2.20	Supplemental USACE Erosion Survey	WS	M	Ma	Inspector Comments: 2002 - Original rock over geotextile is sliding off and the end is coming unraveled. 2003 - Some minor new erosion on the downstream end. 2004 - Site has gotten worse. Underlined geofabric is exposed. 2005 - Still looks bad with exposed geotextile fabric. 2006 - Still have some new unraveling and exposed fabric. Site lengthened upstream. 2009 - Minimal new erosion. 2010 - geotextile fabric placed since last year, possible flood fight. 2011: No observed changes. [2011 Site ID: STR_26-5_L]	38.313836 °	38.315407 °	28	
								-121.592259 °	-121.591433 °	Y	
15	2.58	2.89	Earthen Levee	Vegetation	WS	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.289631 °	38.293994 °	15	
						Ma		-121.603280 °	-121.604226 °		
								DWR ID: DWR_RD0349_03_s_2012_15			
16	2.66	2.71	Earthen Levee	Vegetation	WS	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.290823 °	38.291512 °	19	
						Ma		-121.603334 °	-121.603553 °		
								DWR ID: DWR_RD0349_03_s_2012_19			
17	2.89	3.00	Earthen Levee	Vegetation	WS	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.293954 °	38.295463 °	20	
						Ma		-121.604231 °	-121.604679 °		
								DWR ID: DWR_RD0349_03_s_2012_20			
18	4.03	5.84	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M		38.308073 °	38.329031 °	27	
						Ma		-121.597079 °	-121.585235 °		
								DWR ID: DWR_RD0349_03_s_2012_27			
19	4.07	4.07	Earthen Levee	Encroachments	CR	M	FE : Fences	38.307997 °	38.307997 °	25	
						En		-121.597039 °	-121.597039 °	Y	
								DWR ID: DWR_RD0349_03_s_2012_25			
20	4.84	6.41	Earthen Levee	Vegetation	LS	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.317429 °	38.327893 °	11	
						Ma		-121.589814 °	-121.578119 °		
								DWR ID: DWR_RD0349_03_s_2012_11			
21	4.84	6.41	Earthen Levee	Vegetation	WS	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.317429 °	38.327893 °	16	
						Ma		-121.589814 °	-121.578119 °		
								DWR ID: DWR_RD0349_03_s_2012_16			
22	5.13	5.31	Earthen Levee	Vegetation	LS	U	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.321054 °	38.322957 °	31	
						Ma		-121.589661 °	-121.588326 °	Y	
								DWR ID: DWR_RD0349_03_s_2012_31			
23	5.26	5.26	Earthen Levee	Encroachments	LS	M	TR : Tree or limb	38.322693 °	38.322693 °	21	
						Ma		-121.589327 °	-121.589327 °		
								DWR ID: DWR_RD0349_03_s_2012_21			
24	5.31	5.35	Earthen Levee	Vegetation	LS	M	V4 : Elderberries are blocking visibility and flood fight capability.	38.322958 °	38.323141 °	32	
						Ma		-121.588326 °	-121.587639 °		
								DWR ID: DWR_RD0349_03_s_2012_32			
25	5.40	5.40	Earthen Levee	Vegetation	LS	U	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.323960 °	38.323960 °	26	
						Ma		-121.587684 °	-121.587684 °	Y	
								DWR ID: DWR_RD0349_03_s_2012_26			

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 0349 Sutter Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End					Start	End	Photo		
26	5.40	6.41	Earthen Levee	Crown Surface / Depressions / Rutting	WS U Ma	C1 : Keep the crown roadway free of vegetation.	38.323960 °	38.327893 °	17	-121.587684 °	-121.578119 ° Y
											DWR ID: DWR_RD0349_03_s_2012_17
27	5.71	5.74	Earthen Levee	Encroachments	LS U Ma	FW : Firewood	38.327290 °	38.327767 °	33	-121.584788 °	-121.584930 ° Y
											DWR ID: DWR_RD0349_03_s_2012_33
28	6.06	6.38	Earthen Levee	Encroachments	WS C Ma	PR : Prunings	38.331583 °	38.328692 °	34	-121.583284 °	-121.579039 °
											DWR ID: DWR_RD0349_03_s_2012_34
29	6.33	6.37	Earthen Levee	Encroachments	WS C Ma	PR : Prunings	38.329146 °	38.328887 °	23	-121.579448 °	-121.579139 °
											DWR ID: DWR_RD0349_03_s_2012_23

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.55	05/03/2012 05/03/2012	Herman Phillips

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Water Side
Category	Earthen Levee
Item	Vegetation
RD 349 Unit 3 levee mile 0.00 looking downstream of the landside slope. Photo taken 5-3-2012.	
phillips_s_20120514_419.jpg	



Levee Mile Report Line	6
Start Levee Mile	0.62
End Levee Mile	0.62
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
This stump is located on the landward slope.	
phillips_s_20120306_127.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.63
End Levee Mile	0.63
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Broken tree with stump on landward slope, broken top portion of this tree is resting on the landward toe. District is aware of this encroachment.	
phillips_s_20120306_126.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.55	05/03/2012 05/03/2012	Herman Phillips

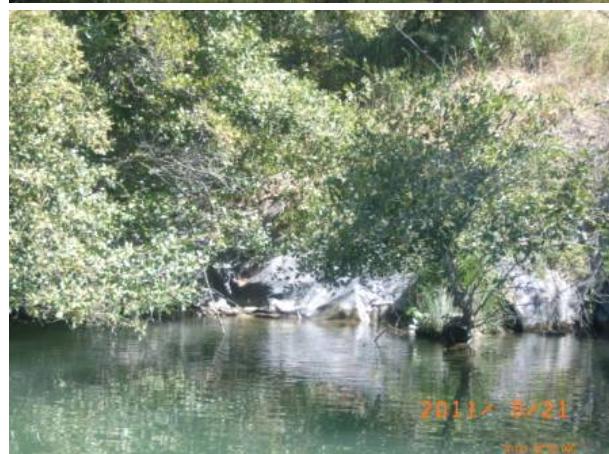
Levee Mile Report Line	10
Start Levee Mile	0.81
End Levee Mile	0.81
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Unit 3 levee mile 0.00 land side looking down stream.	
phillips_s_20120306_124.jpg	



Levee Mile Report Line	10
Start Levee Mile	0.81
End Levee Mile	0.81
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Unit 3 water side looking downstream RD 349.	
phillips_s_20120306_125.jpg	



Levee Mile Report Line	14
Start Levee Mile	2.20
End Levee Mile	2.20
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #1	
phillips_s_20120306_131.jpg	



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
A/W : Acceptable but Monitor & Maintain

N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

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Levee Mile Report Line	14
Start Levee Mile	2.20
End Levee Mile	2.20
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

phillips_s_20120306_132.jpg



2011- 8/21

Levee Mile Report Line	19
Start Levee Mile	4.07
End Levee Mile	4.07
Location	Crown
Category	Earthen Levee
Item	Encroachments

Unauthorized cable crossing the levee crown roadway, levee mile 4.07. Photo taken 11-30-2011.

phillips_s_20120306_128.jpg



Levee Mile Report Line	22
Start Levee Mile	5.13
End Levee Mile	5.31
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Wild growth on landward slope and toe of levee section. Photo taken 5-23-2011

phillips_s_20120306_133.jpg



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Flood Control Project Maintenance
Levee Inspections

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Unit No. 03 Sutter Slough	Left	6.55	05/03/2012 05/03/2012	Herman Phillips

Levee Mile Report Line	22
Start Levee Mile	5.13
End Levee Mile	5.31
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Another view of wild growth on levee section looking downstream. Photo taken 5-23-2011.	
phillips_s_20120306_134.jpg	



Levee Mile Report Line	25
Start Levee Mile	5.40
End Levee Mile	5.40
Location	Land Side
Category	Earthen Levee
Item	Vegetation
RD 349 Unit 3 Levee mile 5.40 looking upstream landward unsatisfactory growth on slope and shoulders. 5-03-2012.	
phillips_s_20120515_420.jpg	



Levee Mile Report Line	25
Start Levee Mile	5.40
End Levee Mile	5.40
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking downstream landside unsatisfactory growth slope shoulder and toe of levee section. 5-3-2012.	
phillips_s_20120515_421.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.55	05/03/2012 05/03/2012	Herman Phillips

Levee Mile Report Line	26
Start Levee Mile	5.40
End Levee Mile	6.41
Location	Land Side
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Looking upstream crowroadway levee mile 5.40 overgrown. 5-3-2012.	
phillips_s_20120515_422.jpg	



Levee Mile Report Line	27
Start Levee Mile	5.71
End Levee Mile	5.74
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Firewood on levee slope not removed from fall inspection 2010. Photo taken 5-23-2011	
phillips_s_20120306_135.jpg	



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